



# The application marketplace for Big Data

Find, select, associate, deploy and integrate  
Big Data applications.

## All the applications you need

Juju is a one-stop shop for your big data application needs. There are dozens of big data and related applications available in the Juju Charm Store. Big data apps don't run on their own. Once you've found the one you need, you have to download it, configure some aspects of it and get it installed. Then you have to do the same for its associated supporting applications. Once it's all integrated and running, the time and cost of scaling becomes an issue. All this takes time that you could be spending on working with and processing your data.

The Juju Charm Store has over 300 Charms for big data applications available to be deployed with a simple click or a single command. In its modeling interface, you can easily create relationships between the applications so that they configure themselves and are ready to use together as soon as Juju is finished deploying them. Scaling becomes a matter of extending the relationships you defined in Juju, and not an exercise in manual intervention.

A sample list of Charms available:

- Cloudera CDH
- Apache Hadoop (Vanilla Distribution): HDFS, YARN,
- Hive, ZooKeeper, Flume, HBase, Hue, Kafka, Mahout, Pig, Storm, Tez...
- Spark Distributions (Streaming, SQL, Batch, MLib...)
- NFLabs Zeppelin, iPython Notebook
- France Labs – Datafari
- WANDisco Fusion Agent
- Datastax DSE (Cassandra)
- Elastic: ElasticSearch, Kibana, LogStash (ELK Stack)
- DataArt DeviceHive IoT Management Platform
- Meteorite.bi Saiku Data Exploration and Analytics software
- Engineering SpagoBI Business Intelligence and Analytics suite
- Bureau14 quasar**db**
- Incubio YIELD APIs
- Ceph, GlusterFS, Swift...

## Application relationships

The applications in the Juju Charm Store are called Charms. They are more than just apps in an app store, the Charms define the application's properties and relationship capabilities with other applications you choose for your solution. Associating Charm relationships is done easily in the GUI by simply selecting and linking charms.

Having a canvas where application relationship definitions can be visualized and assigned, and having that canvas itself be dynamic and deployable, sets Juju apart from traditional orchestration solutions. The visual design impact alone makes Juju incredibly powerful, but being able to take that design and instantly deploy it is real magic.

There are even pre-built Charm bundles that allow you to deploy entire solutions with the relationships already associated. And the best part is that you can create your own Charms and bundles to suit your needs, as well as extend and enhance what's already there.

## More than a store

Juju is a service modeling tool, designed for modern cloud workloads. It was built with the understanding that there are many technologies used in any given environment. The modeling language employed in Juju allows it to function as an abstraction layer for both technologies and the teams of people that use them. You aren't constrained to switch from one technology to another. You can use and integrate what you already have and know, or use Juju on its own.

Juju provides a means for everyone - business people, developers, and operators - to all speak the same language, draw what they'd like to accomplish together, deploy that illustration, and automatically associate the relationships of all of its components.

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